

27. (Added) A deicer panel as set forth in claim 26, wherein the thermal conducting layer comprises a rubber-coated fiberglass fabric.
28. (Added) A deicer panel as set forth in claim 1, wherein the outer cover layer is made from a material selected from a group consisting of sheet aluminum alloy, stainless steel and magnesium alloy.
29. (Added) A method as set forth in claim 13, wherein said securing step comprises securing the bondside surface of the inner support layer to a wing of the aircraft.
30. (Added) A method as set forth in claim 13, wherein said securing step comprises cementing the bondside surface of the inner support layer to the surface of the aircraft.
31. (Added) A method as set forth in claim 16, wherein said securing step comprises securing the bondside surface of the inner support layer to a wing of the aircraft.
32. (Added) A method as set forth in claim 16, wherein said securing step comprises cementing the bondside surface of the inner support layer to the surface of the aircraft.

#### REMARKS

By the present amendment, claims 1, 10-13 and 16 have been amended and claims 24-32 have been added. Upon entry of this amendment, claims 1-32 will be pending in the application. A clean listing of the post-amendment claims are attached for the Examiner's review.

***Restriction Requirement - 35 U.S.C. § 121***

The Examiner has required a restriction between claims 1-12 drawn to an electrically heated deicer panel and claims 13-23 drawn to a method of making an electrically heated deicer panel. In support of this requirement, the Examiner contends that "[i]n the instant case, the product as claimed can be made by another and materially different process such as joining the inner support layer to the outer cover layer without necessarily joining the stitched heater layer to the inner support layer and outer cover layer as is claimed in the broadest method claims." It is respectfully submitted that a deicer panel could not be made without the stitched heater layer being joined to the inner support surface and the and the outer cover layer and claim 1 has been amended has been amended to set this forth. Accordingly, the election of claims 13-23 is affirmed with traverse and rejoinder of non-elected claims 1-12 is respectfully requested.

***Title of the Invention***

The title of the amendment has been amended as suggested by the Examiner to be more descriptive of the invention being claims.

***Abstract of the Disclosure***

The abstract of the disclosure has been amended as suggested by the Examiner and a complete copy is included on a separate sheet.

***Drawing Objections***

A separate letter to the Examiner is being submitted herewith with proposed drawing changes.<sup>1</sup> Upon approval of these drawings changes, the specification will be amended to reflect the addition of Figure 6.

---

1. It is respectfully, but strongly, submitted that this additional drawing, while perhaps helpful, is not necessary for the understanding of the invention and, in any event, does not add any new matter to the application.

***Claim Rejections - 35 U.S.C. §112***

Claims 13-15 have been rejected as being indefinite because there allegedly was no antecedent basis for the phrase "the electrically conductive wire." The term "wire" has been replaced with "strand", this replacement hopefully eliminating any indefiniteness in the claim.

***Claim Rejections - 35 U.S.C. § 102***

Claims 13 and 16 have been rejected as being anticipated by U.S. Patent No. 3,888,711 to Breitner. Breitner discloses a laminated glass panel consisting of two sheets of glass and an intermediate layer of a sheet material (polyvinyl butyral, PVC or polyethylenel) containing "system of electric conductors, in the form of thin metal filaments." This type of panel is used for heated windows for automobiles, aircraft and apartments to prevent the formation of ice or frost.<sup>2</sup> By the present amendment, the claims have been amended to clarify that the deicer of the present invention is intended for installation on a structural component of the aircraft, such as its wings. Specifically, claims 13 and 16 have been amended to include the step of securing a bondside surface of the inner support layer a surface of the aircraft. Breitner is not believed to show or suggest such a use for its transparent plastic sheet 15.

***Claim Rejections - 35 U.S.C. §103***

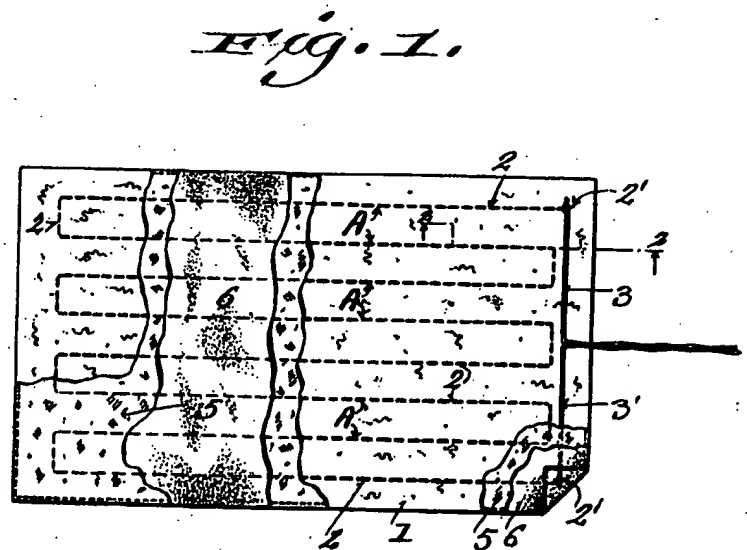
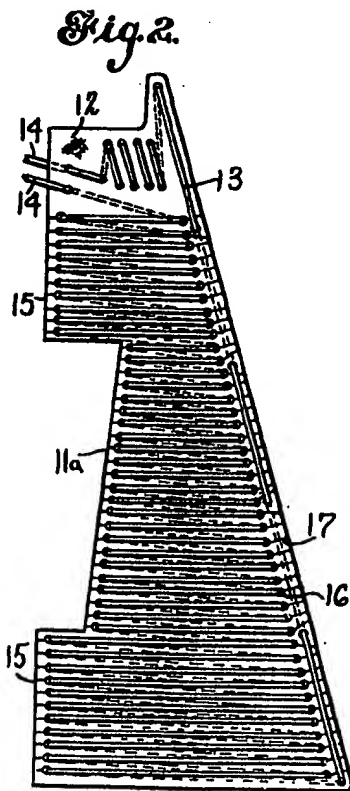
Claims 14, 15 and 23 have been rejected as being obvious over Breitner in view of JP2000-106268. As was explained above, Breitner does not show or suggest using its heated glass panel a deicing a non-window part of an aircraft and the Japanese reference does nothing to remove this shortcoming. Accordingly, these claims are believed to be patentable over these applied art references.

Claims 13, 14 and 16-22 have been rejected as being obvious over U.S. Patent No. 2,653,320 to Pfenninger in view of U.S. Patent No. 1,142,393 to Bloomer. Claims

---

2. Another listed application is "alarm glasses" wherein when the current-carrying wire is cut by breaking of the glass, an alarm signal is sent.

15 and 23 have been rejected as being obvious over Pfenninger in view of JP2000-106268. The Examiner appears to admit in the Office Action that Pfenninger does not disclose stitched heating wire, but he contends that, in view of Bloomer, this would have been obvious "in order to provide a faster method of affixing the element as well as facilitating the use of a larger quantity of heating wire per unit area as compared with conventional wire mounting techniques." However, it is respectfully submitted that if wire density was an issue (and it very much is in aircraft deicers), the applied art would motivate one of ordinary skill in the art to stick with a non-stitched arrangement. Specifically, when the Pfenninger non-stitched pattern (Figure 2, on the left below) is compared to the Bloomer stitched pattern (Figure 1, on the right below), it is the non-stitched pattern which appears to "facilitate the use of larger quantity of heating wire per unit area."



Accordingly, claims 13-23, and also claims 1-12 and added claims 24-32, are believed to be patentable over the applied art.

**Conclusion**

In view of the foregoing, the present application is believed to be in a condition for allowance and an early indication to that effect is earnestly solicited.

Should a petition for an Extension of Time be necessary for the timely reply to the outstanding Office Action (or if such a petition has been made and an additional extension is necessary) petition is hereby made and the Commissioner is authorized to charge any fees (including additional claim fees) to Deposit Account No. 18-0988, Order No. BFGHP0210USA.

Respectfully submitted,

RENNER, OTTO, BOISSELLE & SKLAR, P.L.L.

By Cynthia S. Murphy  
Cynthia S. Murphy  
Reg. No. 33,430

1621 Euclid Avenue  
Nineteenth Floor  
Cleveland, Ohio 44115  
(216) 621-1113

**CERTIFICATE OF MAILING (37 CFR 1.8a)**

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

Date: 6/27/01  
Heather Holmes  
Heather Holmes